

I CLAIM:

1. A hand-operated circular saw having blade cutting depth adjustment device comprising:

a hollow interior tubular body having a hand grasp portion
5 and a head portion in which is a motor operating a threaded axis protruded a peripherally threaded circular protrusion on a lateral side thereof a plurality of first screw holes spacedly formed in said lateral side around said circular protrusion and a pair of second screw holes respectively formed
10 in opposing side;

an upper plate disposed to said head portion having a plurality of through holes respectively engaged with said first screw holes and secured a plurality of screws, a protrudent circular hole in a plane portion engaged on the
15 peripherally threaded circular protrusion, a pair of pivotal tubes spacedly projected upward from an upper surface for respectively receiving springs and a pair of internally threaded cylinder rods therein, a pair of quickly operated belts engaged with upper end of said cylinder rods respectively,
20 wherein said pivotal tubes each having graduations on their outer periphery and a pair horizontal arc protrusions spacedly formed on an upper surface position on opposing side of said protrudent circular hole each having a central bore and a tilting screw hole engageable within a pair butterfly bolts;
25 an internally threaded tube engaged with said threaded

axis of said head portion;

a guard plate engaged with said circular protrusion of said head portion;

a circular saw blade secured to said threaded axis by a disk with pad ring engaged therebetween;

a lower plate having a pair of through holes spacedly formed in two ends engaged with lower end of said internally threaded cylinder rods respectively secured by a pair of screws, a pair of projections spacedly projected upward from upper surface each having a flat top engageable with the graduations of said pivotal tubes respectively;

a lateral plate having a straight portion and an oblique portion and each of said portions having a pair of parallel slits engageable with said saw blade, wherein said straight portion further having a pair of through hole spacedly formed in two ends of said parallel slits and connected with outer end of a pair of internally threaded elongate cylinder rods respectively secured by a pair of screws, said elongate cylinder rod each having an inner end slidably inserted into said horizontal arc protrusions of said upper plate respectively fastened by said butterfly bolts;

a U-shaped handle pivoted to said second screw holes of said head portion by a pair of screws respectively;

whereby said hand-operated circular saw is portable.

2. The hand-operated circular saw as recited in claim 1,

wherein said quickly operated bolts are functioned to adjust the vertical positions of said lower plate and said saw blade according to said graduations.

3. The hand-operated circular saw as recited in claim 1,
5 wherein said butterfly bolts are functioned to adjust the horizontal positions of said lateral plate according to cutting depth of said saw blade.

4. The hand-operated circular saw as recited in claim 1,
10 wherein said lower plate and said lateral plate may lean on a plane surface of a table, a wall and a ground.

5. The hand-operated circular saw as recited in claim 1,
wherein said circular saw may operate without said lateral plate.

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